

Basic instructions

Recommended installation

The products may only be used for the intended purpose and under safe and fault-free conditions.

- Correct usage also covers observance of this instruction manual.
- Any use not in accordance with the prescribed usage shall be regarded as incorrect usage, and may lead to product failure.
- For ratchet pincer maintenance, care and calibration, reference the complete Calibration Procedures below

3-Handle Ratchet Pincer (Fig. 1)

- Includes GO/NO-GO gauge
- Can be calibrated
- Lightweight for easy handling
- Heavy-duty professional grade tool
- Single handed installation

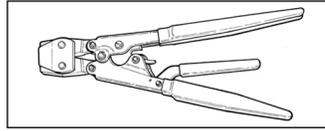


Fig. 1:

2-Handle Ratchet Pincer (Fig. 2)

- Includes GO/NO-GO Gauge
- Can be calibrated
- Lightweight for easy handling
- Heavy-duty professional grade tool

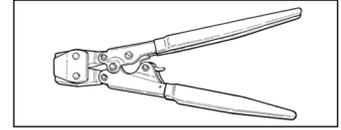


Fig. 2:

Clamp installation instructions

1. Per ASTM F2098, insert fitting into tubing until shoulder or tube stop contacts end of tubing. Position clamp within 1/8" to 1/4" (3.2 to 6.4 mm) of tube end. (Fig. 3)

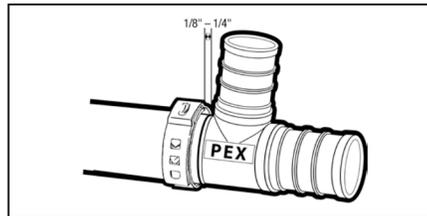


Fig. 3: Insert fitting/position clamp

2. Close ear clamp with tool, tool will not release until clamp is fully closed. (Fig. 4)

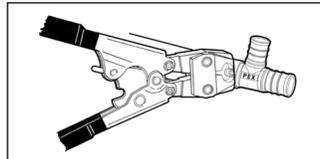


Fig. 4: Close clamp ear with tool

3. **IMPORTANT:** For proper installation of PEX stainless steel clamps, full ear closure is required. Visually inspect clamp for correct closed ear form. (Fig. 5)

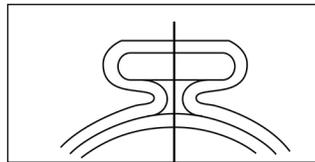


Fig. 5: Full ear closure required

WARNING

- In high chloride water conditions, use only plastic fittings.
- Do not install in contact with concrete
- Use only ASTM F1807 or F2159 insert fittings.
- Failure to observe the above warnings may result in property damage.

Ratchet pincer calibration procedures

A. Checking the tool calibration

1. Close handles of manual pincer to stop point (Fig. 6).
2. Insert GO/NO-GO Gauge into jaw gap (Fig. 7 and Fig. 8).
3. GO/NO-GO Gauge must stop at NO-GO shoulder.
4. If GO/NO-GO Gauge stops after the NO-GO point, then the tool must be "re-calibrated" (see below).
5. Check tool calibration daily.



Fig. 6: Stop Point



Fig. 7: Insert Gauge

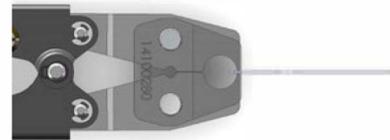


Fig. 8: Insert Gauge (side view)

B. Re-calibrating tools

1. Using a pincer tool calibration wrench* or straight blade screw driver, loosen adjustment nut (Fig. 9).
2. Close handles to stop point and place GO/NO-GO Gauge into jaw gap.
3. Using a straight blade screwdriver, rotate eccentric stud (Fig. 10) counter-clockwise until jaws contact the GO/NO-GO Gauge before the NO-GO area of the Gauge.
4. Using a pincer tool calibration wrench* or straight blade screwdriver, tighten the adjustment nut (Fig. 11).
5. Check tool calibration daily.

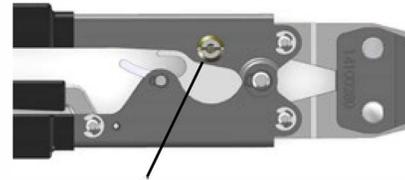


Fig. 9: Adjustment nut

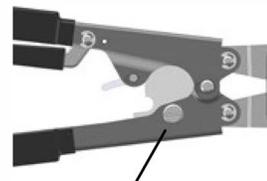


Fig. 10: Eccentric Stud

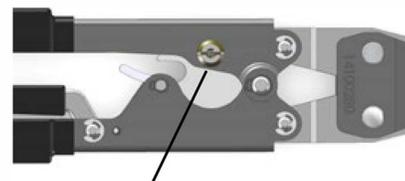


Fig. 11: Adjustment nut

*If the screw tip in the center of the adjustment nut prevents the use of a screwdriver, a pincer tool calibration wrench is necessary.

Tool maintenance

Do not use the Ratchet Tools for any purpose other than to assemble clamps. Use other than intended may damage the tool and void warranty. Lubricate the tool head, spring and ratchet mechanism once per every 30 days with a light lubricating oil (if tool operation becomes sluggish at any time lubricate prior to further use). Clean tool periodically to remove rust and dirt. Rust or dirt build-up will interfere with tool operation and void warranty coverage. Lubricate all parts after cleaning to provide a light protective coating of oil.

Tool warranty

When properly maintained and used as intended the Ratchet Tools are warranted against materials and manufacturing defects for a period of one year from date of purchase. This warranty does not cover defects or damage arising from improper storage or handling, ordinary wear and tear, misuse, abuse, accident or use with unauthorized product or parts. Liability is limited to repair or replacement of product or component part which is determined defective as covered by this warranty.



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